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Pulse~LINK, Inc - Media Release June 25, 2002

Pulse~LINK Founder and Chief Technology Officer John Santhoff states, "**Pulse-LINK's UWB** over-cable initiative is a direct outgrowth of our **UWB** wireless ...
www.pulselink.net/pr-june25-2002.html

Pulse~LINK, Inc UWB over wire

Pulse~LINK is the first company in the world to demonstrate **UWB** over-wire ...
Pulse~LINK's CWave[®] **UWB** technology is the first and only solution to provide a ...
www.pulselink.net/wire_current.html

Pulse Link UWB radio

Pulse~LINK, Inc. has unwrapped its first **UWB** radio for wireless LANs.
rfdesign.com/news/CWave-UWB/

Ultrawidebandplanet.com - Technology Using UWB to TurboCharge Cable TV

Pulse-LINK stated that the use of **UWB** in this particular application requires no ... **Pulse-LINK** said that using **UWB** in this manner can enable such ...
www.ultrawidebandplanet.com/technology/article.php/10850_1371281

Ultrawidebandplanet.com - Products Pulse-Link, Fujitsu to Develop ...

Pulse-Link, Fujitsu to Develop **UWB** Processor September 30, 2003 ... Under the agreement, **Pulse-Link**, which is developing **UWB** systems with a 100-meter range, ...
www.ultrawidebandplanet.com/products/article.php/3085591

Pulse-Link Officially Creates Third UWB Camp

Ultrawideband provider **Pulse-Link** announced its first reference design on Monday, and plans to woo possible clients and partners before a standards meeting ...
www.extremetech.com/article2/0,1558,1764889,00.asp?kc=ETRSS02129TX1K0000532

Unstrung - WLANs/WiFi/802.11 - Pulse-Link Intros Uber UWB ...

This focus on software-defined radio puts **Pulse-Link** in the "out there" category of **UWB** silicon designers, contrasting with the less ambitious, ...
www.unstrung.com/document.asp?doc_id=52585

Unstrung - WLANs/WiFi/802.11 - Pulse-Link Demos UWB WLAN ...

The global site for wireless networking, www.unstrung.com, a Light Reading publication. Founded in March 2000, Unstrung is a respected yet irreverent source ...
www.unstrung.com/document.asp?doc_id=42430

ExtremeTech: Pulse-Link Officially Creates Third UWB Camp

Full text of the article, '**Pulse-Link** Officially Creates Third **UWB** Camp' from ExtremeTech, a publication in the field of Computers & Technology, ...
www.findarticles.com/p/articles/mi_zdext/is_200502/ai_n9522184

Pulse~LINK Joins UWB Forum

The 'third flavor' of ultrawideband has joined one of the two main groups fighting for the standard.
www.wi-fiplanet.com/news/article.php/3503166

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- ☐ **1. [On the Power Spectral Density of Wireless Multiple-Access UWB Impulse Radio under Realistic Propagation Conditions](#) [PDF-18K]
Sep 2003
...Wireless Multiple-Access **UWB** Impulse Radio under Realistic...Taha , Keith M. Chugg
Pulse Link Inc., 9155 Brown Deer...fluctuations in typical **UWB** applications. This
paper...communications engineer at **Pulse Link**, a **UWB** company headquartered...
[http://viola.usc.edu/paper/VCT2003fall/DATA/01B_03.PDF]
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- ☐ **2. [MAC Protocols for Ultra - Wide - Band \(UWB \) Wireless Networks : Impact of](#) [PDF-30K]
Aug 2002
...decided to map its **UWB** technology **UWB** Network MAC Domain Termi_Node...though
802.15.3 group may embrace **UWB** as the second-generation physical...standard based
on 2.4-GHz radio.9 **Pulse Link**, Inc. has studied 802.11, 802...less than ideal when
applied to **UWB**. Hence, an integrated solution...
[<http://dawn.cs.umbc.edu/Papers/2002/ITCOM02-UWB.pdf>]
[similar results](#)**
- ☐ **3. [Ultra-wideband radio technology: overview and future research](#)
Hirt, W., *Computer Communications*, Jan 2003
...actively developing or promoting **UWB**-RT (alphabetical order). (a...communication,
radar, location (d) **Pulse LINK**, Inc. (<http://www.pulse-link.net>): wireless home
networking...communication, radar, location (f) **UWB** Working Group (UWBWG
<http://www...>
Published journal article available from  **DIRECT**
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- ☐ **4. [9.UltraWideband.lo](#) [PDF-20K]
Aug 2003
...a technology combining **UWB** and cable, **Pulse-Link** Inc. (San Diego, Calif...complete
network rebuilds. **Pulse-Link** proposes to inject **UWB** signals into existing...fiber-coaxial
networks. In its **UWB**-cable experiments, **Pulse-Link** has achieved speeds of...
[<http://www.spectrum.ieee.org/WEBONLY/pressrelease/0903...>]
[similar results](#)**
- ☐ **5. [ULTRA-WIDEBAND ANTENNA ARRAY](#)
HARMUTH, Henning / PULSE-LINK, INC., PATENT COOPERATION TREATY
APPLICATION, May 2003
...invention generally relates to ultra-wideband (**UWB**) communication systems. More**

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particularly...antenna array for receiving and transmitting **UWB** signals. Background Of The Invention 15...have a substantial impact on the received **UWB** signal. 20 For example, natural and man...

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- ☐ **6. Microsoft Word - MALD Thesis.doc** [PDF-114K]
May 2002
...other systems 18 3) Major Players in the **UWB** Market 20 4) Potential Markets and Applications...Page 3 5/23/02 ABSTRACT Ultra-Wideband (**UWB**) is a wireless technology for transmitting...short distance. Some of the advantages of **UWB** include high data rate performance for high...
[<http://itc.mit.edu/itel/students/papers/iyengar.pdf>]
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- ☐ **7. PowerPoint Presentation** [PPT-153K]
Mar 2003
...15-03/127r0 Submission 4 **Pulse~LINK** Inc. PHY-Layer Overview...derived systems and future **UWB** standards achieved through...15-03/127r0 Submission 5 **Pulse~LINK** Inc. Modulation Scheme...127r0 Submission 12 **Pulse~LINK** Inc. Coexistence **UWB** coexistence traditionally...
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- ☐ **8. ULTRA-WIDEBAND IMAGING SYSTEM**
SANTHOFF, John / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION,
May 2003
...embodiment of the present invention transmits **UWB** pulses that include "sub-harmonic frequencies...transmitters that emit a multiplicity of **UWB** pulses, which are received by a plurality...object or person positioned between the **UWB** transmitters and receivers can be scanned...
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- ☐ **9. SYSTEM AND METHOD FOR TRANSMITTING DATA IN ULTRA WIDE BAND FREQUENCIES IN A DE-CENTRALIZED SYSTEM**
AIELLO, Roberto / TAYLOR, James, L. / HO, Minnie / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, Mar 2003
...transmitting data using Ultra Wide Band (**UWB**) radio frequencies. More particularly, this invention relates to a system using **UWB** to transmit data in a de- centralized system...invention relates to transmitting data using **UWB** in a home entertainment system. 20 2. Problem...
Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ **10. Microsoft Word - final_paperv2.doc** [PDF-65K]
May 2003
The Evolution of **UWB** and IEEE 802.15.3a for Very High Data Rate...Zuniga EE 381K-11 Wireless Communications **UWB** Group, The University of Texas at Austin...proposed physical layers employ ultra wideband (**UWB**) communication. The goal of this paper is...
[http://www.ece.utexas.edu/~mandke/docs/Evolution_of_UW...]
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- ☐ **11. PROJECT REPORT** [PDF-9K]
Aug 2002
...most exhaustive view of the **UWB** players active in communication...q22001/articles/art_4.htm) · **UWB** for communicating between devices...networking PCs (wireless USB) **Pulse-Link** (USA) (Fantasma Networks IP...patents and IP · Development of **UWB** platform for wireless video...
[<http://www.ife.ee.ethz.ch/~barras/Occupation/Publicati...>]

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- ☐ **12. An Ultra-Wideband Technology Workshop: RSVP** [12K]
Nov 2002
...1:00 pm - 3:00 pm Session 2: **UWB** Systems Design Issues Chair...3:30 pm - 5:30 pm
Session 3: **UWB** Hardware Designs Chair: Robert...California, Berkeley John Santhoff
Pulse-Link, Inc. Kazimierz (Kai) Siwiak...00 am - 10:00 am Session 4: **UWB**
Interference and Coexistence...
[<http://commsci1.usc.edu/INTEL-USC/agenda.html>]
similar results

- ☐ **13. PowerPoint Presentation** [PPT-274K]
Feb 2003
...Performance Claims Sample "one **UWB** technology developer has measured...only
minimal degradation" **UWB** Chips There is no standard...node-to-node) with omni
antennas **Pulse~LINK** currently demonstrates up to 400 MBs wireless **UWB** over-wire
technology for coax...
[<http://www.ics.uci.edu/~cristipp/uwb.ppt>]
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- ☐ **14. JES 2003 : 0020 PA1 10/21/2003** [PDF-24K]
Oct 2003
...Leading edge wireless solutions ! **UWB** Military/Government Applications...Leading
edge wireless solutions ! **UWB** Communication Suppliers Prototype...Chips scheduled for
release 2003 **UWB** data over cable network precision location, Undisclosed **Pulse-Link**
(Fantasma) (San Diego, CA) Prototype...
[http://www.ewh.ieee.org/r3/central_virginia/html/pastm...]
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- ☐ **15. Ultra Wide Band Technology** [PPT-192K]
May 2002
...members. Time Domain has harnessed **UWB** technology in silicon-based
solutions...Solutions www.multispectral.com **Pulse-Link** www.pulse-link.net Pulsicom
Technologies (Israel...xtremespectrum.com Zircon www.zircon.com **UWB** Contesters
Sprint PCS (PCS) and...
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- ☐ **16. <http://www.its.bldrdoc.gov/proj>** [PDF-947K]
Mar 2001
MAC: Abbreviation for medium access control. machine-independent: In
telecommunications, computer, and data processing systems, pertaining to operations,
procedures, computer programs, and processing that do not depend upon specific
hardware for their successful execution.
[http://www.its.bldrdoc.gov/~bing/fs-1037d/other/t1g2k_...]
similar results

- ☐ **17. PowerPoint Presentation** [PDF-21K]
Feb 2002
...Wideband Impulse Modulations **UWB** Impulse Radio Technologies have...offer PRFs up
to 40 MHz. • **Pulse-Link**, who acquired Fantasma Networks...impacting existing spectrum
users. **UWB** Signal Generator Non-Burst Mode...Field Strength (dB V/m) at 3 m **UWB**
Signal Generator E-Field Strength...
[<http://www.cat.utexas.edu/docs/Oct10TechMeeting/Wirele...>]
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- ☐ **18. MAPPING RADIO-FREQUENCY NOISE IN AN ULTRA-WIDEBAND COMMUNICATION
SYSTEM**
**MILLER, Charles, E. / PULSE-LINK, INC., PATENT COOPERATION TREATY
APPLICATION**, Jun 2002
...communication technology, "ulka-wideband" (**UWB**) may provide assistance in meeting
the ever...radio system. Impulse radio is a form of **UWB** communication using
individually pulsed...intervals to transmit a digital signal. A **UWB** communication system
enables communication...

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☐ **19.** [HAND-OFF BETWEEN ULTRA-WIDEBAND CELL SITES](#)

JOLLY, Donald, W. / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, Jun 2002

Briefly, the present invention provides a dynamic channel re-assignment capability between mobile units (70), base stations (10) and sectors (1, 2, 3, 4, 5) within base station coverage areas (20). The wireless devices used in the present invention...

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☐ **20.** [Ultra - Wideband Wireless Networks on the Horizon](#) [PDF-11K]

Jan 2002

...narrow-band transmissions since **UWB** transmissions are generally...infrastructure need to track **UWB** technology since it could very...Multispectral, www.multispectral.com

Pulse-Link, www.pulselink.net/html.html...Working Group's Web site, www.uwb.org

"Ultra-Wideband Technology..."

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- ☐ 1. ULTRA-WIDEBAND ANTENNA ARRAY
HARMUTH, Henning / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, May 2003
...invention generally relates to ultra-wideband (**UWB**) communication systems. More particularly...antenna array for receiving and transmitting **UWB** signals. Background Of The Invention 15...have a substantial impact on the received **UWB** signal. 20 For example, natural and man...
Full text available at patent office. For more in-depth searching go to  LexisNexis[®] [similar results](#)
- ☐ 2. ULTRA-WIDEBAND IMAGING SYSTEM
SANTHOFF, John / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, May 2003
...embodiment of the present invention transmits **UWB** pulses that include "sub-harmonic frequencies...transmitters that emit a multiplicity of **UWB** pulses, which are received by a plurality...object or person positioned between the **UWB** transmitters and receivers can be scanned...
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- ☐ 3. SYSTEM AND METHOD FOR TRANSMITTING DATA IN ULTRA WIDE BAND FREQUENCIES IN A DE-CENTRALIZED SYSTEM
AIELLO, Roberto / TAYLOR, James, L. / HO, Minnie / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, Mar 2003
...transmitting data using Ultra Wide Band (**UWB**) radio frequencies. More particularly, this invention relates to a system using **UWB** to transmit data in a de- centralized system...invention relates to transmitting data using **UWB** in a home entertainment system. 20 2. Problem...
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- ☐ 4. MAPPING RADIO-FREQUENCY NOISE IN AN ULTRA-WIDEBAND COMMUNICATION SYSTEM
MILLER, Charles, E. / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, Jun 2002
...communication technology, "ulka-wideband" (**UWB**) may provide assistance in meeting the ever...radio system. Impulse radio is a form of **UWB** communication using individually pulsed...intervals to transmit a digital signal. A **UWB** communication system


enables communication...

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☐ 5. HAND-OFF BETWEEN ULTRA-WIDEBAND CELL SITES

JOLLY, Donald, W. / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, Jun 2002


Briefly, the present invention provides a dynamic channel re-assignment capability between mobile units (70), base stations (10) and sectors (1, 2, 3, 4, 5) within base station coverage areas (20). The wireless devices used in the present invention...

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☐ 6. ULTRA WIDE BAND TRANSMITTER

TUFT, Jacob / PULSE-LINK, INCORPORATED, PATENT COOPERATION TREATY APPLICATION, Dec 2001


...detection and interference. Ultra wide band (**UWB**) is a wireless technology for transmitting...of frequency bands with very low power. **UWB** is an extension of conventional spread spectrum...megahertz to about 20 to 30 N1Hz of bandwidth, **UWB** uses vastly more spectrum from a few megahertz...

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☐ 7. ULTRA WIDE BAND BASE BAND RECEIVER

ROGERSON, Gerald / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, Dec 2001

...detection and interference. Ultra wide band (**UWB**) is a wireless technology for transmitting...of frequency bands with very low power. **UWB** is an extension of conventional spread spectrum...megahertz to about 20 to 30 N1Hz of bandwidth, **UWB** uses vastly more spectrum from a few megahertz...

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- ☐ 1. [On the Power Spectral Density of Wireless Multiple-Access UWB Impulse Radio under Realistic Propagation Conditions \[PDF-18K\]](#)
Sep 2003
...Wireless Multiple-Access **UWB** Impulse Radio under Realistic...Ali Taha , Keith M. Chugg **Pulse Link** Inc., 9155 Brown Deer Road...communications engineer at **Pulse Link**, a **UWB** company headquartered in...andIV, respectively. A **pulse** shape designed to meet FCC...
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- ☐ 2. [Characterization of Ultra Wideband Communication Channels](#)
Muqaibel, Ali Hussein, Mar 2003
...the channel on communication **UWB** systems using this channel as...characterization effort also include **pulse** generators and antennas as integral...parts of the channel, since the **pulse** shape and antenna characteristics...fundamental level, the propagation of **UWB** signals, as any electromagnetic...
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- ☐ 3. [Performance of bit error rate and power spectral density of ultra wideband with time hopping sequences \[electronic resource\] / ...](#)
Peek, Joseph Martin, 1979-, Jan 2003
...train is shown in Figure 3.4. A **UWB** uniform **pulse** train signal is represented...signal, and the transmitted **UWB** **pulse** shape is expressed as $w(t)$...users becomes greater. We assume **UWB** transmissions utilize a **pulse** scheme modulation method. A...
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- ☐ 4. [ULTRA-WIDEBAND ANTENNA ARRAY](#)
HARMUTH, Henning / PULSE-LINK, INC., PATENT COOPERATION TREATY APPLICATION, May 2003
...spread of about 5 MHz. In contrast, a **UWB** **pulse** may have a 1.8 GHz center frequency...illustrates that the narrower the **UWB** **pulse** in time, the higher its center 15...duration of the **pulse**. A 600 picosecond **UWB** **pulse** will have about a 1.8 GHz center...
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- ☐ **5. 1 Introduction [PDF-148K]**
Jul 2003
...BPPM modulated Gaussian monocycle **pulse** train (Transmitted **UWB** signal) T The frame period...t s The single received **UWB pulse** a The amplitude of the nth...
Proposed a new algorithm for **UWB pulse** detection, which is an essential...
[http://www.win.tue.nl/~hmei/Personal/MSc_thesis_Hailia...]
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- ☐ **6. D:\html\reports\00-uwb\chap3\chap3.PDF [PDF-15K]**
Jan 2001
...general in terms of the **pulse** shape, binary modulation method, and **pulse** randomization statistics...various points in the radio **link** between an interfering **UWB** transmitter and a victim...linear systems, the various **pulse** shapes are simply related...
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- ☐ **7. Networld(ATM-UWB).tex [PDF-43K]**
Aug 2001
...reduction of fading margins in **link** power budgets leads to reduced...relatively large area. The BS is the **UWB** radio access point of mobile...the physical layer and the data **link** layer. The physical layer deals...The major functions in the data **link** layer are to manage the media...
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- ☐ **8. Characterization of ultra wideband communication channels**
Muqaibel, Ali Hussein., Jan 2003
...the channel on communication **UWB** systems using this channel as...characterization effort also include **pulse** generators and antennas as integral...parts of the channel, since the **pulse** shape and antenna characteristics...fundamental level, the propagation of **UWB** signals, as any electromagnetic...
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- ☐ **9. Performance of bit error rate and power spectral density of ultra wideband with time hopping sequences**
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...train is shown in Figure 3.4. A **UWB** uniform **pulse** train signal is represented...signal, and the transmitted **UWB pulse** shape is expressed as w(t...users becomes greater. We assume **UWB** transmissions utilize a **pulse** scheme modulation method. A...
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- ☐ **10. Proposal Update for IEEE 802.15.3-COP [PPT-2MB]**
Sep 2003
...proposals of CRL-**UWB** Consortium...1 Optimized **pulse** shaping for...Pre-equalization for **pulse** shape calibration 2.7 **Link** budget estimation...SXI and MBOA **UWB** systems 3.1...Pre-equalization for **pulse** shape calibration 2.7 **Link** budget estimation...SXI and MBOA **UWB** systems 3.1...
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- ☐ **11. Why UWB? Report [PDF-219K]**
Oct 2003
...effect of antennas on the **UWB pulse** shape (from ref. 17...Example multipath response to **UWB pulse** (from reference 33...37 Figure 4.2 Examples of **UWB** multipath (from reference...41 Figure 4.5 **Link** reliability vs. margin for...
[http://www.antd.nist.gov/wctg/manet/NIST_UWB_Report_Ap...]
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12. Ultra-wideband radio technology: overview and future research

- ☐ **Hirt, W., *Computer Communications*, Jan 2003**
 ...multispectral.com): communication, radar, location (d) **Pulse LINK**, Inc.
 (<http://www.pulse-link.net>): wireless home networking (e) Time Domain...time-domain.com): communication, radar, location (f) **UWB** Working Group (UWBWG
<http://www.uwb.org>): industry...
Published journal article available from SCIENCE @ DIRECT
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- ☐ **13. UWB - A Ubiquitous Wire Replacement Technology [Word-17K]**
 Jul 2003
 ...is the transmitted **pulse**, h p (t) is the path...integrated version of this **pulse** due to the integration...employed at each end of the **link**. F igure 3. Multi-path Fading and **UWB** Transmissions a...waveforms a) Transmitted **pulse** waveform b) Received...
[\[http://www.ctr.kcl.ac.uk/lectures/Ben/IEECommsUWB_KCL....\]](http://www.ctr.kcl.ac.uk/lectures/Ben/IEECommsUWB_KCL....)
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- ☐ **14. On the spectral and power requirements for ultra-wideband transmission - Communications, 2003. ICC '03. IEEE International ... [PDF-24K]**
 Jun 2003
 ...Using this **pulse**, the **link** budget is...shown that **UWB** can be a good...the Gaussian **pulse** must be filtered...derivative. IV. **LINK BUDGET AND**...bandwidth of the **UWB** signal is...Based on this **pulse** and a more...calculation, the **link** budget was...an indoor **UWB** system, quantifying...
[\[http://www-ec.njit.edu/~haimovic/publication/ShengICC0...\]](http://www-ec.njit.edu/~haimovic/publication/ShengICC0...)
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 ...a technology combining **UWB** and cable, **Pulse-Link** Inc. (San Diego, Calif...complete network rebuilds. **Pulse-Link** proposes to inject **UWB** signals into existing cable...fiber-coaxial networks. In its **UWB**-cable experiments, **Pulse-Link** has achieved speeds of...
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MILLER, Timothy, R. / MCCORKLE, John, W. / XTREMESPECTRUM, INC., PATENT COOPERATION TREATY APPLICATION, Dec 2001
 ...robust. Conventional **UWB** systems perform synchronization...signal is modulated by **pulse** position modulation...refers to the i' **pulse** in the sequence of **UWB** pulses transmitted...shapes at the i' **pulse** in the sequence...hardware (e. g., the **UWB** wavefonn generator...
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 ...co-existing services, our **pulse** shapers can be designed...quantify the impact our **pulse** shaper designs have...1 In a single-user **UWB link** over an AWGN channel...2 In a single-user **UWB link** over AWGN chan- nels...M-1 k =0 in (4), the **pulse** shaper becomes ~p...
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 ...1961. It outlines a **pulse** communication system...contributions to the field of **UWB** stepped up in the late...the basic design for **UWB** transceivers. The main focus was on **pulse** generation and detection...the 1960s and 1970s, **UWB** technologies have been...
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KOHLI, Sanjai / CHEN, Steven / Sirf Technology, Inc., EUROPEAN PATENT, Feb
1999
Background of the Invention 1. Field of the Invention: This invention relates in general to
spread spectrum receivers and in particular to GPS navigation systems such as those
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Salmanian, Mazda, Jan 1998
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RAKE Receiver...

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**SPILKER, James, J., Jr. / STANFORD TELECOMMUNICATIONS, INC., PATENT
COOPERATION TREATY APPLICATION**, Sep 1999


...much reminiscent of the commonly used **Costas loop** operation in BPSK carrier
recovery. Again...be sampled and quantized using a 3-bit **quantizer** at IF as shown in
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**KOHLI, Sanjai / CHEN, Steven / CAHN, Charles, R. / CHANSARKAR, Mangesh /
TURETSKY, Greg / SIFR TECHNOLOGY, INC., PATENT COOPERATION TREATY
APPLICATION**, Oct 1997

A terrestrial C/A code GPS receiver system digitally samples, filters and stores a segment
of 11 half chips of the received composite as a binary number and multiplexes this
number for parallel correlation with each of a series of multibit code...

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TRAN, Jimmy, Cuong / DAVIDOVICI, Sorin / Golden Bridge Technology, Inc., EUROPEAN PATENT, Jun 1999
...timing generator 44, diversity combiner 42, frame processor 40, **Costas loop** 36 or other generic tracking loop, in-phase analog-to-digital...32 and the quadrature-phase-symbol-matched filter 37. The **Costas loop** 36 is coupled to the output of the in-phase-symbol-matched...
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HUFF, Ronald, J. / COMTIER, PATENT COOPERATION TREATY APPLICATION, Mar 2002
...selected. Alternatively, phase-lock loops that incorporate other forms of nonlinearities to distinguish $u(t)$ from e.g., a **Costas loop**, can be used to provide the desired phase estimate when m-ary PSK modulation is employed. Phase-lock loops that incorporate...
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KOHLI, Sanjai / CHEN, Steven / Sirf Technology, Inc., EUROPEAN PATENT, Feb 1999
Background of the Invention 1. Field of the Invention: This invention relates in general to spread spectrum receivers and in particular to GPS navigation systems such as those used in terrestrial navigation for cars, trucks and other land...
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Huff, Ronald / ComTier, EUROPEAN PATENT, May 1999
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KRASNER, Norman, F. / SNAPTRACK, INC., PATENT COOPERATION TREATY APPLICATION, Nov 1999

Refine your search using the found in the address correlator demodulator demodulator equalizer in-phase integrated parity bit transmitter viterbi algorithm waveform

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...should be appreciated that differential demodulation and summation of common data may be performed upon sampled data that is **quantized** according to several bits of accuracy. The retention of such accuracy may be desirable in some instances to preserve the signal...

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☐ 6. QUASI-OPTIMAL RECEIVER FOR TRACKING AND ACQUISITION OF A SPLIT SPECTRUM PN GPS C/A SIGNAL

SPILKER, James, J., Jr. / STANFORD TELECOMMUNICATIONS, INC., PATENT COOPERATION TREATY APPLICATION, Sep 1999

...much reminiscent of the commonly used **Costas loop** operation in BPSK carrier recovery. Again...ratio. The IF signal can be sampled and **quantized** using a 3-bit quantizer at IF as shown...the IF bandwidth. The samples are then **quantized** as in-phase and quadrature samples in...

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☐ 7. COMPOSITE TRELLIS SYSTEM AND METHOD

HUFF, Ronald, J. / COMTIER, PATENT COOPERATION TREATY APPLICATION, May 1999

...selected. Alternatively, phase-lock loops that incorporate other forms of nonlinearities to distinguish O_{ft}) from O_{jt}), e.g., a **Costas loop**, can be used to provide the desired phase estimate when m-ary PSK modulation is employed. Phase-lock loops which incorporate...

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☐ 8. SYMBOL-MATCHED FILTER HAVING A LOW SILICON AND POWER REQUIREMENT

TRAN, Jimmy, Cuong / DAVIDOVICI, Sorin / GOLDEN BRIDGE TECHNOLOGY, INC., PATENT COOPERATION TREATY APPLICATION, Feb 1998


...timing generator 44, diversity combiner 42, frame processor 40, **Costas loop** 36 or other generic tracking loop, in-phase analog-to-digital...32 and the quadrature-phase-symbol-matched filter 37. The **Costas loop** 36 is coupled to the output of the in-phase-symbol-matched...

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☐ 9. Spread spectrum data demodulation with phase correction

Murai, Hideshi / MITSUBISHI DENKI KABUSHIKI KAISHA, EUROPEAN PATENT, Sep 1995


...controlling the phase of the received signal in the analog receiver 3 with the aid of a carrier recovery circuit such as a **Costas loop**. However, in the case of a plurality path signals, it is difficult to simultaneously control the different phases of a plurality...

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☐ 10. COMMUNICATION SYSTEM WITH MULTICARRIER TELEPHONY TRANSPORT

DAPPER, Mark, J. / GEILE, Michael, J. / HILL, Terrance, J. / ROBERTS, Harold, A. / ANDERSON, Brian, D. / BREDE, Jeffrey / WADMAN, Mark, S. / (...) / FORT, Michael, J., PATENT COOPERATION TREATY APPLICATION, Dec 1997

The communication system includes a hybrid fiber/coax distribution network. A head end provides for downstream transmission of telephony and control data in a first frequency bandwidth over the hybrid fiber/coax distribution network and reception of...


Full text available at patent office. For more in-depth searching go to  LexisNexis-
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☐ 11. ENHANCED TIME OF ARRIVAL METHOD


SANDERFORD, H., Britton / SOUVESTRE, John, R. / SANCONIX, INC., PATENT COOPERATION TREATY APPLICATION, Feb 1998


...These include sliding correlators, serial search methods, and 11 frequency or chip clock slewing, with or without conventional **Costas loop** or tau dither loop or delay lock 12 loop hardware. In the instant invention, a correlation peak can be determined in either...


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- ☐ **12. SPREAD SPECTRUM RECEIVER WITH MULTI-BIT CORRELATOR**
KOHLI, Sanjai / CHEN, Steven / CAHN, Charles, R. / CHANSARKAR, Mangesh / TURETSKY, Greg / SIRF TECHNOLOGY, INC., PATENT COOPERATION TREATY APPLICATION, Oct 1997
A terrestrial C/A code GPS receiver system digitally samples, filters and stores a segment of 11 half chips of the received composite as a binary number and multiplexes this number for parallel correlation with each of a series of multibit code...
Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ **13. COMMUNICATION SYSTEM WITH MULTICARRIER TELEPHONY TRANSPORT**
DAPPER, Mark, J. / GEILE, Michael, J. / HILL, Terrance, J. / ROBERTS, Harold, A. / ANDERSON, Brian, D. / BREDE, Jeffrey / WADMAN, Mark, S. / (...) / FORT, Michael, J., PATENT COOPERATION TREATY APPLICATION, Jul 1997
The communication system includes a hybrid fiber/coax distribution network. A head end provides for downstream transmission of telephony and control data in a first frequency bandwidth over the hybrid fiber/coax distribution network and reception of...
Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ **14. METHOD OF COMMUNICATION CHANNEL MONITORING USING PARITY BITS**
ANDERSON, Brian, D. / ROBERTS, Harold, A. / BREDE, Jeffrey / BUSKA, Steven, P. / ADC TELECOMMUNICATIONS, INC., PATENT COOPERATION TREATY APPLICATION, Aug 1996
A method for monitoring at least one telephony communication n-bit channel, wherein one of the bits is a parity bit, includes sampling the parity bit of the n-bit channel. A probable bit error rate is derived from the sampling of the parity bit. The...
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- ☐ **15. MULTI-POINT TO POINT COMMUNICATION SYSTEM**
DAPPER, Mark, J. / GEILE, Michael, J. / HILL, Terrance, J. / ROBERTS, Harold, A. / ANDERSON, Brian, D. / BREDE, Jeffrey / WADMAN, Mark, S. / (...) / FORT, Michael, J., PATENT COOPERATION TREATY APPLICATION, Aug 1996
The communication system includes a hybrid fiber/coax distribution network. A head end provides for downstream transmission of telephony and control data in a first frequency bandwidth over the hybrid fiber/coax distribution network and reception of...
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- ☐ **16. GPS precision approach and landing system for aircraft**
Brown, Alison K. / NAVSYS CORPORATION, EUROPEAN PATENT, Mar 1994
A GPS precision approach and landing system for aircraft employs a fixed ground facility and a single satellite navigation receiver on board the aircraft. The fixed ground facility includes a reference receiver that measures differential corrections...
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- ☐ **17. Reference signal generator and digital demodulator including the same**
SAITO, Shigeki / NIPPON TELEGRAPH AND TELEPHONE CORPORATION, EUROPEAN PATENT, Oct 1991
A digital demodulator wherein a phase difference is detected between a reference signal and an angle-modulated wave, the difference in frequency is detected between the angle-modulated-carrier wave and the reference signal based on the phase...
Full text available at patent office. For more in-depth searching go to  LexisNexis-
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- ☐ **18. APPARATUS FOR AND METHOD OF DOPPLER SEARCHING IN A DIGITAL GPS RECEIVER**
JANC, Robert, Vincent / JASPER, Steven, Charles / MOTOROLA, INC., PATENT COOPERATION TREATY APPLICATION, Mar 1987


...functions, such as data detection, bit timing recovery, and some **Costas loop** processing, are performed digitally in known receivers. However...for four channels simultaneously. These operations include **Costas loop** carrier recovery and demodulation, delay locked-loop filtering...

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☐ 19. ADAPTIVE DATA RATE MODEM

JACOBSMEYER, Jay, M. / PERICLE COMMUNICATIONS COMPANY, PATENT COOPERATION TREATY APPLICATION, May 1994

An adaptive data rate modulator/demodulator (modem) (102), particularly useful for transmitting data over fading communications channels, uses an adaptive data rate technique which supports multiple data rates in the same device. The modem...

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gain of 45dB, **matched filter** accuracy of five bits, ADC accu-. racy of two hits, ... ing speeds of MB-UWB, because the PLL's locking time ...
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Jitter (reference clock & PLL); Drift between motes' clocks (frequency offset); Noise; Interferences ... **matched filter** output (of coherent bins) ...
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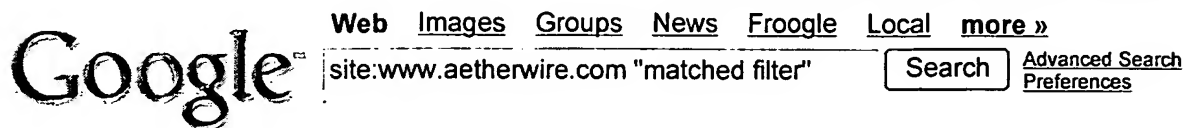
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Robert J. Fontana, J. Fred Larrick, and Jeffrey E. Cade

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